

**Table 3 Electricity Net Generation From Renewable Energy by Energy Use Sector and Energy Source, 2005 - 2009**

(Thousand Kilowatthours)

| Sector/Source                       | 2005        | 2006        | 2007        | 2008        | 2009        |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Total                               | 357,650,653 | 385,771,908 | 352,747,486 | 381,043,759 | 413,246,300 |
| Biomass                             | 54,276,810  | 54,860,621  | 55,538,578  | 55,033,612  | 54,336,774  |
| Waste                               | 15,420,393  | 16,098,525  | 16,524,554  | 17,733,759  | 18,093,335  |
| Landfill Gas                        | 5,142,111   | 5,677,040   | 6,157,750   | 7,156,340   | 7,351,052   |
| MSW Biogenic <sup>1</sup>           | 8,330,471   | 8,477,571   | 8,303,838   | 8,096,801   | 8,342,265   |
| Other Biomass <sup>2</sup>          | 1,947,810   | 1,943,913   | 2,062,966   | 2,480,617   | 2,400,018   |
| Wood and Derived Fuels <sup>3</sup> | 38,856,417  | 38,762,096  | 39,014,024  | 37,299,853  | 36,243,438  |
| Geothermal                          | 14,691,745  | 14,568,029  | 14,637,213  | 14,951,348  | 15,209,663  |
| Hydroelectric Conventional          | 270,321,255 | 289,246,416 | 247,509,974 | 254,831,385 | 272,130,941 |
| Solar/PV                            | 550,294     | 507,706     | 611,793     | 864,315     | 807,988     |
| Wind                                | 17,810,549  | 26,589,137  | 34,449,927  | 55,363,100  | 70,760,934  |
| Commercial                          | 1,758,789   | 1,712,691   | 1,691,439   | 1,614,986   | 1,649,375   |
| Biomass                             | 1,672,752   | 1,619,245   | 1,614,160   | 1,554,948   | 1,580,390   |
| Waste                               | 1,656,755   | 1,598,646   | 1,598,799   | 1,533,645   | 1,559,715   |
| Landfill Gas                        | 217,632     | 172,590     | 202,547     | 233,636     | 243,760     |
| MSW Biogenic <sup>1</sup>           | 953,093     | 955,910     | 962,496     | 910,908     | 937,642     |
| Other Biomass <sup>2</sup>          | 486,031     | 470,146     | 433,756     | 389,101     | 378,313     |
| Wood and Derived Fuels <sup>3</sup> | 15,997      | 20,599      | 15,361      | 21,303      | 20,675      |
| Hydroelectric Conventional          | 86,037      | 93,446      | 77,279      | 59,957      | 68,918      |
| Solar/PV                            | -           | -           | -           | s           | s           |
| Industrial                          | 32,198,528  | 31,871,511  | 30,508,807  | 29,138,172  | 28,275,184  |
| Biomass                             | 29,003,087  | 28,972,463  | 28,918,826  | 27,462,283  | 26,415,224  |
| Waste                               | 732,553     | 572,447     | 631,452     | 821,394     | 757,546     |
| Landfill Gas <sup>1</sup>           | 113,155     | 28,786      | 27,087      | 21,494      | 19,186      |
| MSW Biogenic <sup>2</sup>           | 34,441      | 34,541      | 39,782      | -           | -           |
| Other Biomass <sup>3</sup>          | 584,957     | 509,120     | 564,583     | 799,900     | 738,360     |
| Wood and Derived Fuels              | 28,270,534  | 28,400,016  | 28,287,374  | 26,640,889  | 25,657,678  |
| Hydroelectric Conventional          | 3,195,441   | 2,899,048   | 1,589,981   | 1,675,889   | 1,859,960   |
| Solar/PV <sup>4</sup>               | -           | -           | -           | -           | -           |
| Electric Power                      | 323,693,336 | 352,187,707 | 320,547,239 | 350,290,602 | 383,321,741 |
| Biomass                             | 23,600,971  | 24,268,913  | 25,005,592  | 26,016,380  | 26,341,160  |
| Waste <sup>1</sup>                  | 13,031,084  | 13,927,432  | 14,294,304  | 15,378,719  | 15,776,074  |
| Landfill Gas <sup>2</sup>           | 4,811,325   | 5,475,664   | 5,928,117   | 6,901,211   | 7,088,106   |
| MSW Biogenic <sup>3</sup>           | 7,342,938   | 7,487,120   | 7,301,560   | 7,185,893   | 7,404,623   |
| Other Biomass                       | 876,822     | 964,648     | 1,064,627   | 1,291,615   | 1,283,345   |
| Wood and Derived Fuels              | 10,569,886  | 10,341,481  | 10,711,288  | 10,637,661  | 10,565,085  |
| Geothermal                          | 14,691,745  | 14,568,029  | 14,637,213  | 14,951,348  | 15,209,663  |
| Hydroelectric Conventional          | 267,039,777 | 286,253,922 | 245,842,714 | 253,095,539 | 270,202,064 |
| Solar/PV                            | 550,294     | 507,706     | 611,793     | 864,235     | 807,921     |
| Wind                                | 17,810,549  | 26,589,137  | 34,449,927  | 55,363,100  | 70,760,934  |

<sup>1</sup>Includes paper and paper board, wood, food, leather, textiles and yard trimmings.

<sup>2</sup>Agriculture byproducts/crops, sludge waste, and other biomass solids, liquids and gases.

<sup>3</sup>Black liquor, and wood/woodwaste solids and liquids.

<sup>4</sup>The electric power sector comprises electricity-only and combined-heat-power (CHP) plants within North American Classification System (NAICS) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

MSW = Municipal Solid Waste.

PV = Photovoltaic.

s = Less than 500 kilowatthours.

- = No data reported.

**Notes:** Totals may not equal sum of components due to independent rounding.

Data revisions are discussed in the Highlights section.

Revisions to biomass removed MSW non-biogenic and tires from renewable waste energy.

Data for 2009 is preliminary.

**Source:** Electric Power: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report," and predecessor forms: Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."